Watchung basalt lying conformably on Newark sandstone. The sandstone is both bedded and jointed; the basalt is irregularly jointed and columnar.

The gorge is cut in Watchung basalt, and the narrow cleft into which the falls have retreated is along the major joint system.

The sandstone forms the base of the section immediately above the retaining wall and is overlain by massive-bedded basalt capped by finely columnar basalt.

The lower portion of the basalt, which rests on sandstone, presents large vertical columns; the upper portion consists of small radial columns.

Shows broad zone of breccia along the fault plane.

The lower portion of the basalt, which rests on sandstone, presents large vertical columns; the upper portion consists of small radial columns.

Glacial till on serpentine, Castle Point, Hoboken, N. J.